

File #: M 1039 1002
Date Approved: / /
DOGM Lead: Wayne Hedberg

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DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Telephone: (801) 538-5340

NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

The informational requirements in this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, General Rules and Rules of Practice and Procedures.

This form applies only to mining operations which disturb or will disturb greater than five acres at any given time.

"MINING OPERATIONS" means those activities conducted on the surface of the land for the exploration for, development of, or extraction of a mineral deposit, including, but not limited to, surface mining and the surface effects of underground and in situ mining, on-site transportation, concentrating, milling, evaporation, and other primary processing.

"Mining operation" does not include: the extraction of sand, gravel, and rock aggregate; the extraction of oil and gas as defined in Chapter 6, Title 40; the extraction of geothermal steam; smelting or refining operations; off-site operations and transportation; or reconnaissance activities which will not cause significant surface resource disturbance or involve the use of mechanized earth-moving equipment such as bulldozers or backhoes.

PLEASE NOTE: If extra space is required to complete a section, please attach additional sheets and include cross-referenced page numbers as necessary. The operator may submit this information on an alternate form, however the same or similar format must be used.

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I. GENERAL INFORMATION (Rule R613-004-104)

1. Mine Name: Redmond Clay & Salt Co. Mines
2. Name of Applicant or Company: Redmond Clay & Salt Co. Inc.
Corporation () Partnership () Individual ()
3. Permanent Address: Redmond, Utah

4. Company Representative (or designated operator):
Name: _____
Title: _____
Address: _____
Phone: _____
5. Location of Operation:
County(ies) Sanpete & Sevier
Township: 20. S. Range: 1 W. Section: 13, 14, 23, 24 + 25
Township: _____ Range: _____ Section: _____
Township: _____ Range: _____ Section: _____
6. Ownership of the land surface: Private (Fee), Public Domain (BLM),
National Forest (USFS), State of Utah or other:
Name: Redmond Clay & Salt Co. Inc. Address: Redmond, Utah
Name: _____ Address: _____
Name: _____ Address: _____
Name: _____ Address: _____
7. Owner(s) of record of the minerals to be mined:
Name: Same as Above Address: _____
Name: _____ Address: _____
Name: _____ Address: _____
Name: _____ Address: _____
8. Have the above owners been notified in writing? Yes _____ No ☒.
If no, why not? Private Property
9. Does the operator have legal right to enter and conduct mining
operations on the land covered by this notice? Yes ☒ No _____.

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II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R613-004-105)

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1. Base Map

A complete and correct topographic base map (or maps) with appropriate contour intervals must be submitted with this notice which show all of the items on the following checklist. The scale should be approximately 1 inch = 2,000 feet (preferably a USGS 7.5 minute series or equivalent topographic map where available) showing the location of lands to be affected in sufficient detail to permit calculation of proposed surface disturbance.

Map Checklist

Please check off each section as it is drawn on the map(s). Does the map show:

- (a) Property boundaries of surface ownership of all lands which are to be affected by the mining operations;
- (b) Perennial streams, springs and other bodies of water, roads, buildings, landing strips, electrical transmission lines, water wells, oil and gas pipelines, existing wells or boreholes, or other existing surface or subsurface facilities within 500 feet of the proposed mining operations;
- (c) Proposed route of access to the mining operations from nearest publicly maintained highway (Map scale appropriate to show access);
- (d) Known areas which have been previously impacted by mining or exploration activities within the proposed land affected;
- (e) Acreages proposed to be disturbed or reclaimed each year (or other suitable time period).

See Map
(In Blue)

Power Lines
To Mines

County road
See Map

1500

One

2. Surface Facilities Map

A surface facilities map shall be provided at a scale of not less than 1" = 500'.

Map Checklist

Please check off each section as it is drawn on the map. Does the map show:

- (a) Proposed surface facilities, including but not limited to buildings, stationary mining/processing equipment, roads, utilities, power lines, proposed drainage control structures, and the location of topsoil storage areas, overburden/waste dumps, tailings or processed waste facilities, disposal areas for overburden, solid and liquid wastes, and wastewater discharge, treatment and containment facilities;

See Map
✓

(b) A border clearly outlining the extent of the surface disturbed area proposed to be affected by mining, and the number of acres proposed to be affected;

UNKNOWN

(c) The location of known test borings, pits, or core holes.

UNKNOWN

3. Additional Maps

Additional maps and drawings may be required as applicable in accordance with Rule R613-004-105.3.

III. OPERATION PLAN (Rule R613-004-106)

1. Mineral(s) to be mined: Salt & Bentonite

2. Acreage to be disturbed:

Minesite (operating, storage, disposal areas, etc.): 40
Access/haul roads/conveyors: 10
Associated on-site processing facilities: 5
Total: 55

3. Describe methods and procedures to be employed for mining, on-site processing and concurrent reclamation.

Salt - underground - Blasting + Loading.
Crushing - Drying - Screening.
Clay - Overburden Removal - Open Pit Loading
pad drying - Crushing - Screening - grinding -

4. Elevation of groundwater (if known) ? ft.

5. Thickness of soil material to be stockpiled.

Area from which soil material can be salvaged

Volume of soil to be stockpiled

(cross reference with item IV-17)

X inches
X acres
X cu. yds.

6. Thickness of overburden 0 to 20 ft.

7. Thickness of mineral deposit. 0 to 1000 ft.

8. Volume of refuse, tailings, and processing waste stockpiles.

Unknown cu. yds.

9. Acreage and capacity of tailings ponds and water storage ponds to be constructed.

0 acres

0 Acre-Feet
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10. Describe how topsoil or subsoil material will be removed, stockpiled and protected. None

11. Describe how overburden material will be removed and stockpiled.

Pushed to side with Bulldozer

12. Describe how tailings, waste rock, rejected materials, etc. will be disposed of. Hauled to dump area

13. Potentially deleterious materials must be analyzed for toxicity. Describe the nature of any deleterious materials which will be used, encountered, or generated onsite (See Rule R613-001-004).

None

Specify analyses to be conducted on these materials.

NOTE: The Division may stipulate additional analyses.

14. For each tailings pond, sediment pond, or other major drainage control structures, attach design drawings and typical cross-sections.

None

15. Describe any proposed effluent discharge points (UPDES) and show their location on the map provided under Rule R613-004-105.2. Give the proposed discharge rate and expected water quality. Attach chemical analyses of such discharge if available

16. Vegetation - The operator is required to return the land to a useful condition and reestablish at least 70 percent of the premining vegetation ground cover.

Private Property

The ground cover percentage figure is determined by sampling and averaging the vegetation type(s) on the areas to be mined (see Attachment I for suggested sampling methods).

(a) Vegetation Survey - The following information needs to be completed based upon the vegetation survey:

Sampling method used

Number of plots or transects

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<u>Ground Cover</u>	<u>Percent</u>
Vegetation (perennial grass, forb and shrub cover)	<u>20</u>
Litter	<u>20</u>
Rock/rock fragments	<u>10</u>
Bare ground	<u>50</u>
	<u>100%</u>
Revegetation Requirement - 70 percent of above vegetation figure)	<u>7</u>

List the four (4) predominant perennial species of vegetation growing on the area.

June grass Russian Thistle.
Sage brush Weeds.

- (b) Photographs - The operator may submit photographs (prints) of the site sufficient to show existing vegetation conditions. These photographs should show the general appearance and condition of the area to be affected and may be utilized for comparison upon reclamation of the site. Photographs should be clearly marked as to the location, orientation and the date that the pictures were taken.

17. Soils - The plan shall include an order 3 Soil Survey (or similar) and map. This information is needed to determine which soils are suitable for stockpiling for revegetation. This soil data may be available from the local Soil Conservation Service office, or if on public lands, from the land management agency. The map needs to be of such scale that soil types can be accurately determined on the ground (see Attachment I).

- (a) Each soil type to be disturbed needs to be field analyzed for the following:

Depth of soil material _____ inches
Volume (for stockpiling) _____ cu. yds.
Texture (field determination) _____
pH (field determination) _____
(cross reference with item IV - 5)

- (b) Where there are problem soil areas (as determined from the field examination) laboratory analysis may be necessary. Soil samples to be sent to the laboratory for analysis need to be about one pint in size, properly labeled, and in plastic bags. Each of the soil horizons on some sites may need to be sampled.

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18. Provide a narrative description of the geology of the area and/or a geologic cross section. _____

Not Known

IV. IMPACT ASSESSMENT (Rule R613-004-109)

Please provide a general narrative description identifying potential surface and/or subsurface impacts. Where applicable, this description should include surface and groundwater systems, threatened or endangered species or their critical habitats, existing soil resources for reclamation, slope stability, erosion control, air quality, and public health and safety.

None

V. RECLAMATION PLAN (Rule R613-004-110)

1. List current land use(s) other than mining: _____

None

2. List future post-reclamation land-use(s) proposed: _____

None

3. Describe each phase of reclamation of the minesite in detail under the following categories:

(a) Disposal of Trash

Describe how buildings, foundations, trash and other waste materials will be disposed of. _____

None

(b) Backfilling and Grading

Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials. _____

None

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(c) Soil Material Replacement

In order to reestablish the required ground cover, one to two feet (depending on underlying material) of suitable soil material usually has to be redistributed on the areas to be reseeded. If the stockpiled soil isn't sufficient for this, soil borrow areas will need to be located.

How much soil material is planned to be put on the area to be reseeded? 12" inches

Where will this material come from? Pile Next to Pit

How will it be transported and spread? pushed in with Dazer

(d) Seed Bed Preparation

Describe how the seedbed will be prepared and equipment to be used. Leveled + Disked

(The Division recommends ripping or discing six inches deep)

(e) Seed Mixture - List the species to be seeded:

<u>Species Name</u>	<u>Seeding Rate</u> (lbs Pure Live Seed/Acre)
<u>Crested wheat</u>	<u>20 lbs.</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(The Division recommends seeding 20 lbs./acre of native and introduced adaptable species of grass, forb, and browse seed and will provide a specific species list if requested)

(f) Seeding Method

Describe method of planting the seed. Grain drill
or Hand broadcast.

(The Division recommends planting the seed with a rangeland or farm drill, or if broadcast seeded, harrow or rake the seed 1/4 to 1/2 inch into the soil. Fall is the preferred time to seed)

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(g) Fertilization

Describe fertilization method and rate. Not Needed

(h) Other Revegetation Procedures

If other reclamation procedures, such as mulching, irrigation, etc., are planned, describe them. X

VI. VARIANCE (Rule R613-004-112)

Any planned deviations from Rule R613-004-007 (Operating Practices), R613-004-108 (Hole Plugging Requirements), or Rule R613-004-111 (Reclamation Practices) must be identified below.

<u>Rule Number</u>	<u>Title/Category</u>
<u>X</u>	<u>X</u>
<u>X</u>	<u>X</u>
<u>X</u>	<u>X</u>
<u>X</u>	<u>X</u>

For each variance requested, attach a narrative statement describing and delineating the area proposed to be affected by the variance, justifying the need for the variance, and discussing alternate methods or measures to be utilized.

VII. SURETY (Rule R613-004-113)

A Reclamation surety must be provided to the Division prior to final approval of this application. In calculating this amount, the Division will consider the following major steps:

- 1) Clean-up and removal of structures.
- 2) Backfilling, grading and contouring.
- 3) Soil material redistribution and stabilization.
- 4) Revegetation (preparation, seeding, mulching)

To assist the Division in determining a reasonable surety amount, please attach a reclamation cost estimate which addresses each of the above steps.

Unknown

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VIII. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Signature of Operator/Applicant:

Milo J. Bosshardt

Name (typed or print):

Milo J. Bosshardt

Title/Position (if applicable):

Operator

Date:

9-9-89

PLEASE NOTE:

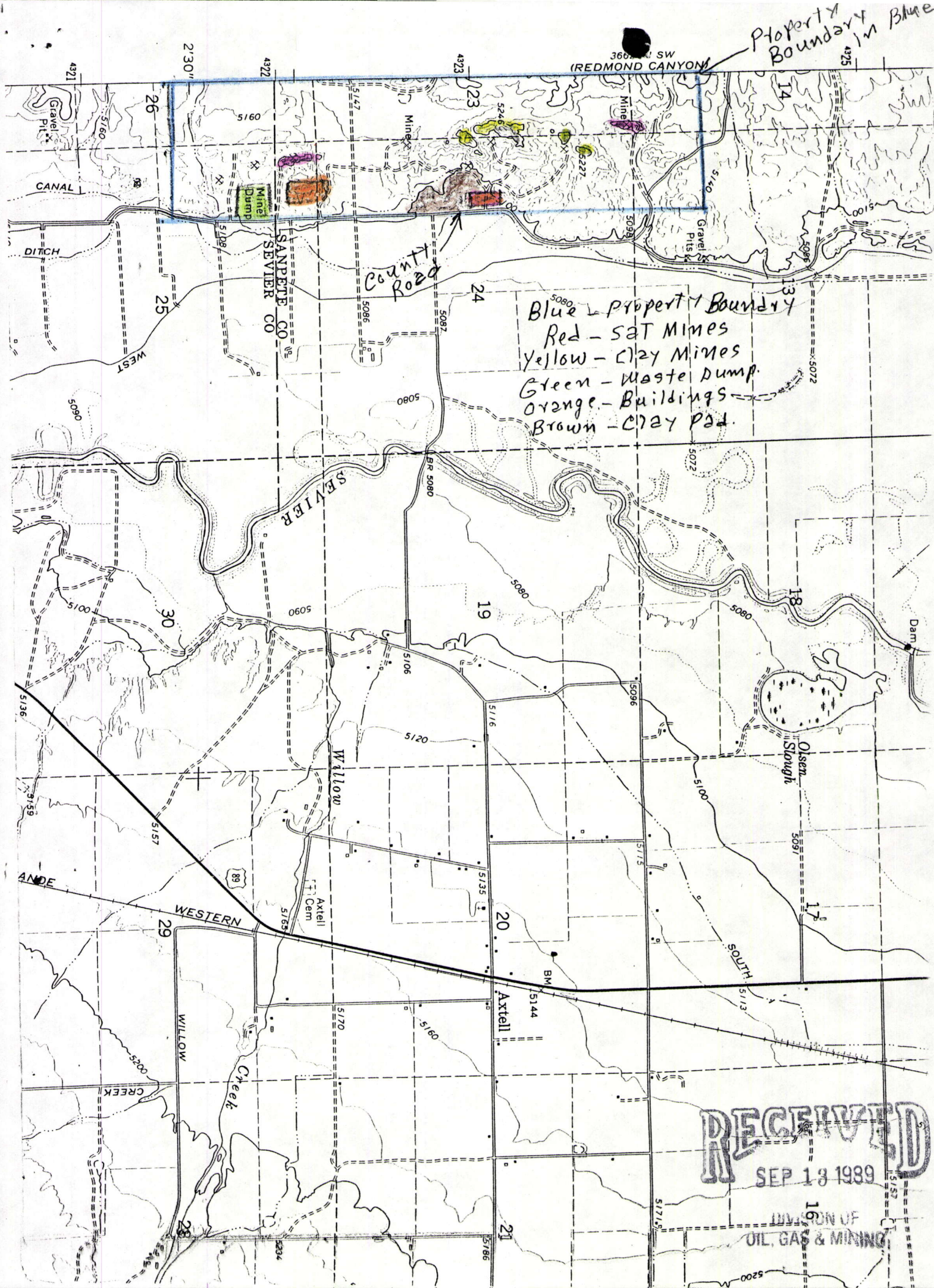
Section 40-8-13(2) of the Mined Land Reclamation Act provides for maintenance of confidentiality concerning certain portions of this report. Please check to see that any information desired to be held confidential is so labeled and included on separate sheets or maps. Only information relating to the location, size or nature of the deposit may be protected as confidential.

Confidential Information Enclosed: () Yes (✓) No

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Property 1 Boundary in Blue

Blue - Property 1 Boundary
Red - SAT Mines
Yellow - Clay Mines
Green - Waste Dump
Orange - Buildings
Brown - Clay Pad

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